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APPLICATION NO.	F	TLING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/712,646		11/13/2003	Daniel F. Tell	CE10835R/10-187	8966	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/712,646	TELL ET AL.
Office Action Summary	Examiner	Art Unit
	Nghi H. Ly	2686
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be til od will apply and will expire SIX (6) MONTHS from tite, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>07</u> 2a) ☐ This action is FINAL . 2b) ☐ The since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matters, pre	
Disposition of Claims		
 4) Claim(s) 1-26 is/are pending in the application 4a) Of the above claim(s) 22-26 is/are withdress. 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 22-26 are subject to restriction and/allowed. 	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) and according a specific and a specific	ccepted or b) objected to by the ne drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicat iority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s)	∆ \	(DTO 442)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	4) Linterview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	

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DETAILED ACTION

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Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-3, 5-10, 12-14 and 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greaney et al (US 5,796,729) in view of Trossen et al (US 2003/0212764A1).
- 4. Regarding claims 1 and 12, Greaney teaches a gateway (see fig.2, item 75) for controlling call routing via a selected network (column 11, lines 10-14, see "routing"), gateway comprising: the a controller configured to support and control the functionality of the gateway (see fig.2, and column 4, lines 19-29, see "LAN"), a wireless local area

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network (LAN) transceiver (see fig.2, and column 4, lines 19-29, see "LAN"), coupled to and cooperatively operable with the controller to form an association with a wireless communications unit, a local loop interface coupled to and cooperatively operable with the controller to support a connection with a local loop (column 1, lines 58-67, see "wireless local loop"), and a wide area network (WAN) transceiver (see fig.2, and column 4, lines 19-29, see "WAN"), coupled to and cooperatively operable with the controller to support a wireless connection with a WAN (column 11, lines 10-14, see "routing" and fig.2, and column 4, lines 19-29, see "WAN").

Greaney does not specifically disclose forwarding a message via the WAN corresponding to call routing when the association with the wireless communications unit changes, and wherein the call routing of the wireless communication unit identifies whether traffic to the wireless communication unit should be delivered via the local loop or the WAN.

Trossen teaches forwarding a message via the WAN corresponding to call routing when the association with the wireless communications unit changes (see [0002], see "Internet" and it reads on Applicant's "WAN"), and wherein the call routing of the wireless communication unit identifies whether traffic to the wireless communication unit should be delivered via the local loop or the WAN (see [0002], see "Internet" and it reads on Applicant's "WAN").

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Trossen into the system of Greaney in order to provide seamless services (see Trossen, [0002]).

Regarding claim 2, Greaney further teaches the WAN transceiver and the controller operate: to send a registration message via a WAN session to the WAN (see fig.2, and column 4, lines 19-29, see "WAN"), the registration message effecting a call routing update so that calls to the wireless communications unit are routed to the local loop when the association is formed, and to receive an acknowledgement of the registration message via the WAN session (see column 8, lines 39-45).

Regarding claim 3, Greaney further teaches the controller operates to assign a LAN address to the wireless communications unit, responsive to the acknowledgment (see fig.2, and column 4, lines 19-29, see "LAN").

Regarding claim 5, Greaney further teaches cooperatively with the local loop interface operates to receive an incoming call indication via the local loop (see column 8, lines 41-51), cooperatively with the wireless LAN transceiver operates to forward the incoming call indication via a wireless LAN session (see fig.2, and column 4, lines 19-29, see "LAN") with the wireless communications unit and receive a response from the wireless communications unit (see fig.2, wireless connection between item 75 and portable terminal 52), and cooperatively with the local loop interface and the wireless LAN (see fig.2, and column 4, lines 19-29, see "LAN") transceiver answers an incoming call corresponding to the incoming call indication on the local loop and couples the incoming call to the wireless communications unit via the wireless LAN session when the response is received (also see column 8, lines 41-51).

Regarding claim 6, Greaney further teaches the wireless LAN transceiver cooperatively with the controller receives a call request from the wireless

communications unit via a wireless LAN session (see fig.2, and column 4, lines 19-29, see "LAN"), and when the local loop is available, the controller cooperatively with the local loop interface initiates a local loop call request to a public switched telephone network and receives one of a call ringing, a call answer, and a busy signal (also see column 8, lines 41-51).

Regarding claim 7, Greaney further teaches the controller together with the local loop interface monitors the local loop for a busy condition prior to initiating the local loop call request (see column 8, lines 41-51), and the controller cooperatively with the WAN transceiver sends a message via a WAN session indicating the local loop is busy upon initiating the local loop call request and a message indicating the local loop is idle when a call corresponding to the local loop call request has been completed (see fig.2, and column 4, lines 19-29, see "WAN").

Regarding claim 8, Greaney further teaches the controller together with the local loop interface monitors the local loop for a busy condition when the busy condition is detected, the controller cooperatively with the WAN transceiver initiates a WAN call request corresponding to the call request via the WAN (see fig.2, and column 4, lines 19-29, see "WAN") and responsive thereto receives, from the WAN, a status message corresponding to one of call ringing, a busy signal, and a call answer (see column 8, lines 41-51 and column 10, lines 45-64), and the controller together with the wireless LAN transceiver forwards to the wireless communications unit a message corresponding to the status message (see fig.2, wireless connection between item 75 and portable terminal 52).

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Regarding claim 9, Greaney further teaches the status message is a call answer (see column 8, lines 41-51 and column 10, lines 45-64), the controller and the WAN transceiver operate to set up a WAN call (see fig.2, and column 4, lines 19-29, see "WAN") and the controller and the wireless LAN transceiver operate to couple the WAN call to the wireless communications unit via the wireless LAN session (see fig.2, and column 4, lines 19-29, see "LAN").

Regarding claim 10, Greaney further teaches the controller together with the local loop interface monitors the local loop for a busy condition (see fig.2, and column 4, lines 19-29, see "WAN") and when the busy condition is detected further determines whether the busy condition results from another wireless LAN session with the wireless communications unit (see fig.2, and column 4, lines 19-29, see "LAN"), and when the busy condition result from the other wireless LAN session (see fig.2, and column 4, lines 19-29, see "LAN"), the controller together with the local loop interface operates to initiate a conference call via the local loop (see column 10, lines 42-44).

Regarding claim 13, Greaney further teaches forwarding a registration message via a WAN session to the WAN (see fig.2, and column 4, lines 19-29, see "WAN"), the registration message effecting a call routing update so that calls to the wireless communications unit (see fig.2, wireless connection between item 75 and portable terminal 52) are routed to a local loop that is coupled to the gateway when the wireless communications unit is detected; and the method further comprises receiving an acknowledgement of the registration message via the WAN session (see fig.2, and column 4, lines 19-29, see "WAN").

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Regarding claim 14, Greaney further teaches assigning a LAN address to the wireless communications unit (see fig.2, wireless connection between item 75 and portable terminal 52), responsive to the acknowledgment (see fig.2, and column 4, lines 19-29, see "LAN").

Regarding claim 16, Greaney further teaches receiving an incoming call indication via a local loop; establishing a wireless LAN session with the wireless communications unit; forwarding the incoming call indication to and receiving a response from the wireless communications unit via the wireless LAN session, and when the response is received (see column 8, lines 41-51 and column 10, lines 45-64), answering an incoming call corresponding to the incoming call indication on the local loop and coupling the incoming call to the wireless communications unit via the wireless LAN session (see fig.2, and column 4, lines 19-29, see "LAN").

Regarding claim 17, Greaney further teaches receiving a call request from the wireless communications unit via a wireless LAN session, monitoring a local loop for a busy condition, when the local loop is not busy, initiating a local loop call request corresponding to the call request to a public switched telephone network and receiving one of a call ringing, a call answer and a busy signal (see column 8, lines 41-51 and column 10, lines 45-64), and sending a message via a WAN session indicating the local loop is busy upon initiating the local loop call request and a message indicating the local loop is idle when a call corresponding to the local loop call request has been completed (see fig.2, and column 4, lines 19-29, see "LAN").

Regarding claim 18, Greaney further teaches when the busy condition is detected, initiating a WAN call request corresponding to the call request via the WAN and responsive thereto receiving, from the WAN, a status message corresponding to one of call ringing, a busy signal, and a call answer; and forwarding to the wireless communications unit a message corresponding to the status message (see fig.2, and column 4, lines 19-29, see "LAN").

Regarding claim 19, Greaney further teaches when the status message is a call answer, setting up a WAN call (see column 8, lines 41-51 and column 10, lines 45-64), and coupling the WAN call to the wireless communications unit via the wireless LAN session (see fig.2, and column 4, lines 19-29, see "LAN").

Regarding claim 20, Greaney further teaches when the busy condition is detected, determining whether the busy condition results from another wireless LAN session with the wireless communications unit (see column 8, lines 41-51 and column 10, lines 45-64), and when the busy condition results from the other wireless LAN session, initiating a conference call via the local loop (see fig.2, and column 4, lines 19-29, see "LAN").

5. Claims 4 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greaney et al (US 5,796,729) in view of Trossen et al (US 2003/0212764A1) and further in view of Stanfield (US 6,856,598).

Regarding claims 4 and 15, the combination of Greaney and Trossen teaches the WAN transceiver and the controller operate: to send a message via a WAN session

to the WAN (see fig.2, and column 4, lines 19-29, see "WAN"). The combination of Greaney and Trossen does not specifically disclose sending a deregistration message, the deregistration message effecting a call routing update so that calls to the wireless communications unit are not routed to the local loop when the association is no longer available; and to receive an acknowledgement of the deregistration message via the session.

Stanfield teaches sending a deregistration message, the deregistration message effecting a call routing update so that calls to the wireless communications unit are not routed to the local loop when the association is no longer available, and to receive an acknowledgement of the deregistration message via the session (see column 1, lines 10-29 and see column 21, lines 22-25).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Stanfield into the system of Greaney and Trossen in order to route the communications via each selected communications control carries in accordance with the processed communication control signals.

6. Claims 11 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Greaney et al (US 5,796,729) in view of Trossen et al (US 2003/0212764A1) and further in view of Schuster et al (US 6,650,901).

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Regarding claims 11 and 21, the combination of Greaney and Trossen teaches the WAN transceiver is operable on one of packet data WAN, a 3G WAN, a UMTS WAN, and a broadband WAN (see fig.2, and column 4, lines 19-29, see "LAN").

The combination of Greaney and Trossen does not specifically disclose the LAN transceiver is operable on one of an IEEE 802.11 network and a HiperLan network.

Schuster teaches the LAN transceiver is operable on one of an IEEE 802.11 network and a HiperLan network (see column 5, lines 7-11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the teaching of Schuster into the system of Greaney and Trossen in order to provide emergency dispatch services in a data network telephony system (see Schuster, Abstract).

Response to Arguments

7. Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

On page 10 of applicant's remarks, applicant argues that Stanfield does not teach the call routing between the local loop and the wireless WAN and the combination of Greaney and Stanfield does not teach claims 4 and 15.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir.

1986). In this case, Greaney teaches the call routing between the local loop and the wireless WAN (see fig.2, and column 4, lines 19-29, see "WAN and column 11, lines 10-14, see "routing" and fig.2, and column 4, lines 19-29, see "WAN") and the combination of Greaney and Stanfield teaches Applicant's claims 4 and 15. In addition,

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the call routing between the local loop and the wireless WAN) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

On page 10 of applicant's remarks, applicant argues that Stanfield does not teach the call routing between the local loop and the wireless WAN and the combination of Greaney and Schuster does not teach claims 11 and 21.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In this case, Greaney teaches the call routing between the local loop and the wireless WAN (see fig.2, and column 4, lines 19-29, see "WAN and column 11, lines 10-14, see "routing" and fig.2, and column 4, lines 19-29, see "WAN") and the combination of Greaney and Schuster teaches Applicant's claims 11 and 21. In addition,

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., the call routing between the local loop and the wireless WAN) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shiyuuhei (JP411055326A) teaches mobile IP communication system IP communication method and router and terminal management server (see Solution).

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any

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extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nghi H. Ly whose telephone number is (571) 272-7911. The examiner can normally be reached on 8:30 am-5:30 pm Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nghi H. Ly

12/06/06

CHARLES APPIAH